

Amendment and Response

Applicant: Martin Brox

Serial No.: 10/585,151

Filed: October 16, 2007

Docket No.: Q601.131.101/2003P53957US

Title: VOLTAGE REGULATION SYSTEM

IN THE CLAIMS

Please cancel claim 15 without prejudice.

Please add claim 32.

Please amend claims 10, 19, and 21 as follows:

1-9. (Cancelled)

10. (Currently Amended) A voltage regulation system comprising:

an input of the voltage regulating system being presented with a first voltage;

an output of the voltage regulation system having the first voltage changed into a second voltage, which is available to be tapped at the output;

a first device for generating an essentially constant voltage from the first voltage, or a voltage derived from it, to provide the essentially constant voltage on a first line;

a further device for generating a variable further voltage from the first voltage or a voltage derived from it to provide the variable further voltage on a second line directly connected to the first line, the variable further voltage tracking the first voltage; and

a device for activating and/or deactivating the further device to an activated and/or deactivated state.

11. (Previously Presented) The voltage regulation system of claim 10, wherein the further voltage generated by the further device can be higher than the voltage generated by the first device.

12. (Previously Presented) The voltage regulation system of claim 10, wherein the further voltage generated by the further device is proportional to the first voltage or the voltage derived from it.

13. (Previously Presented) The voltage regulation system of claim 12, wherein the further device comprises a voltage divider circuit.

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14. (Previously Presented) The voltage regulation system of claim 12, wherein the voltage generated by the first device or a voltage derived from it, and the further voltage generated by the further device, or a voltage derived from it, can be used for controlling a voltage regulation circuit device.

15-16. (Cancelled)

17. (Previously Presented) The voltage regulation system of claim 12, wherein, in the activated state of the further device, the height of the level of the reference voltage used for the voltage regulation circuit device is determined by whichever of the voltages generated by the first and further device, or the voltages derived from them, exhibits the higher level.

18. (Previously Presented) The voltage regulation system of claim 12, wherein, in the deactivated state of the further device, the height of the level of the reference voltage used for the voltage regulation system circuit device is determined by the voltage generated by the first device or the voltage derived from it.

19. (Currently Amended) A method for the regulation of voltage comprising:
changing a first voltage into a second voltage, wherein the second voltage exhibits a lower voltage level than the first voltage;
generating an essentially constant voltage from the first voltage, or a voltage derived from it, to provide the essentially constant voltage on a first line;
generating a variable further voltage from the first voltage or a voltage derived from it to provide the variable further voltage on a second line directly connected to the first line, the variable further voltage tracking the first voltage, wherein the further voltage can be higher than the constant voltage generated from the first voltage or the voltage derived from it; and
changing the essentially constant voltage to provide the second voltage in a first state and changing the greater of the essentially constant voltage and the variable further voltage to provide the second voltage in a second state.

20. (Previously Presented) The method of claim 19, further comprising generating the further voltage such that it is proportional to the first voltage or the voltage derived from it.

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21. (Currently Amended) A voltage regulation system comprising:
an input having a first voltage;
an output having a second voltage;
a first device for generating an essentially constant voltage from the first voltage to provide the essentially constant voltage on a first line; and
means for generating a ~~variable-tracking~~ further voltage from the first voltage that tracks the first voltage,
a further device for generating ~~the-a variable~~ further voltage from the ~~first-tracking~~ voltage to provide the variable further voltage on a second line directly connected to the first line; and
a device for activating and/or deactivating the further device to an activated and/or deactivated state.
22. (Previously Presented) The voltage regulation system of claim 21, wherein the further voltage generated can be higher than the voltage generated by the first device.
23. (Previously Presented) The voltage regulation system of claim 21, wherein the further voltage generated is proportional to the first voltage.
24. (Previously Presented) The voltage regulation system of claim 21, further comprising a voltage divider circuit.
25. (Previously Presented) The voltage regulation system of claim 21, wherein the voltage generated by the first device and the further voltage generated can be used for controlling a voltage regulation circuit device.
26. (Previously Presented) The voltage regulation system of claim 21, wherein the voltage generated by the first device and the further voltage generated can be used as a reference voltage for the voltage regulation circuit device.
27. (Cancelled)

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28. (Previously Presented) The voltage regulation system of claim 21, wherein, in the activated state of the further device, the height of the level of the reference voltage used for the voltage regulation circuit device is determined by whichever of the voltages generated by the first and further device exhibits the higher level.

29. (Previously Presented) The voltage regulation system of claim 21, wherein, in the deactivated state of the further device, the height of the level of the reference voltage used for the voltage regulation system circuit device is determined by the voltage generated by the first device or the voltage derived from it.

30. (Previously Presented) The voltage regulation system of claim 10, wherein the device for activating and/or deactivating the further device comprises a register.

31. (Previously Presented) The voltage regulation system of claim 21, wherein the device for activating and/or deactivating the further device comprises a register.

32. (New) A voltage regulation system comprising:

- a first reference voltage generator configured to generate an essentially constant voltage from a first voltage;

- a first buffer configured to buffer the essentially constant voltage to provide a first reference voltage on a first line;

- a second reference voltage generator configured to generate a tracking voltage from the first voltage that tracks the first voltage;

- a second buffer configured to buffer the tracking voltage to provide a second reference voltage on a second line directly connected to the first line;

- a device for activating and deactivating the second buffer to an activated or deactivated state; and

- a voltage regulator configured to provide a second voltage based on the first voltage, the first reference voltage, and the second reference voltage.